

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 7, 2006, 20:59:42 ; Search time 22.6667 Seconds

(Without alignments)
440.228 Million cell updates/sec

Title: US-10-791-619-8

Perfect score: 596
Sequence: 1 DIQLQSPSSLSASVDRVT.....SHEDPTFGQIKVEIKRTV 114

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 3 | 596 | 100.0 | 114 | 2 | US-09-920-171-8 |
| 4 | 596 | 100.0 | 114 | 2 | US-09-716-028-8 |
| 5 | 596 | 100.0 | 114 | 2 | US-10-113-996-8 |
| 6 | 596 | 100.0 | 218 | 1 | US-08-887-352B-15 |
| 7 | 596 | 100.0 | 218 | 1 | US-08-887-352B-17 |
| 8 | 596 | 100.0 | 218 | 1 | US-08-887-352B-19 |
| 9 | 596 | 100.0 | 218 | 1 | US-08-887-352B-24 |
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| 11 | 596 | 100.0 | 218 | 2 | US-09-109-207C-17 |
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| 19 | 596 | 100.0 | 218 | 2 | US-09-920-171-17 |
| 20 | 596 | 100.0 | 218 | 2 | US-09-920-171-19 |
| 21 | 596 | 100.0 | 218 | 2 | US-09-920-171-24 |
| 22 | 596 | 100.0 | 218 | 2 | US-09-716-028-15 |
| 23 | 596 | 100.0 | 218 | 2 | US-09-716-028-17 |
| 24 | 596 | 100.0 | 218 | 2 | US-09-716-028-19 |
| 25 | 596 | 100.0 | 218 | 2 | US-09-716-028-24 |
| 26 | 596 | 100.0 | 218 | 2 | US-10-113-996-15 |

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| 27 | 596 | 100.0 | 218 | 2 | US-10-113-996-17 | Sequence 17, Appl |
| 28 | 596 | 100.0 | 218 | 2 | US-10-113-996-19 | Sequence 19, Appl |
| 29 | 596 | 100.0 | 218 | 2 | US-10-113-996-24 | Sequence 24, Appl |
| 30 | 594 | 99.7 | 114 | 1 | US-08-887-352B-8 | Sequence 8, Appl |
| 31 | 594 | 99.7 | 218 | 2 | US-09-282-505-1 | Sequence 1, Appl |
| 32 | 594 | 99.7 | 218 | 2 | US-09-054-255-1 | Sequence 1, Appl |
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| 34 | 594 | 99.7 | 218 | 2 | US-09-680-145-1 | Sequence 1, Appl |
| 35 | 594 | 99.7 | 218 | 2 | US-09-483-588-1 | Sequence 1, Appl |
| 36 | 587 | 98.5 | 248 | 1 | US-08-887-352B-22 | Sequence 22, Appl |
| 37 | 587 | 98.5 | 248 | 1 | US-08-887-352B-23 | Sequence 23, Appl |
| 38 | 587 | 98.5 | 248 | 2 | US-09-109-207C-22 | Sequence 22, Appl |
| 39 | 587 | 98.5 | 248 | 2 | US-09-109-207C-23 | Sequence 23, Appl |
| 40 | 587 | 98.5 | 248 | 2 | US-09-296-005-22 | Sequence 22, Appl |
| 41 | 587 | 98.5 | 248 | 2 | US-09-296-005-23 | Sequence 23, Appl |
| 42 | 587 | 98.5 | 248 | 2 | US-09-920-171-22 | Sequence 22, Appl |
| 43 | 587 | 98.5 | 248 | 2 | US-09-920-171-23 | Sequence 23, Appl |
| 44 | 587 | 98.5 | 248 | 2 | US-09-716-028-22 | Sequence 22, Appl |
| 45 | 587 | 98.5 | 248 | 2 | US-09-716-028-23 | Sequence 23, Appl |

ALIGNMENTS

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RESULT 1
US-09-109-207C-8
; Sequence 8, Application US/09109207C
; Patent No. 6172213
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P11231X1
; CURRENT APPLICATION NUMBER: US/09/109,207C
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-09-109-207C-8
; Query Match 100.0%; Score 596; DB 2; Length 114;
; Best Local Similarity 100.0%; Pred. No. 1.2e-49;
; Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 61 GVPSPFGSGSGTDTLTITSSIQPEDFATYYCOQSHEDPTFGQIKVEIKRTV 114
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US-09-296-005-8
; Sequence 8, Application US/09296005
; Patent No. 6290957
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P11231X1
; CURRENT APPLICATION NUMBER: US/09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 26
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; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Light chain sequence derived from MAb11
US-09-296-005-8
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Query Match          100.0%; Score 596; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.2e-49;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB      1 DIQLTQSPSSLSASVGDRTVITTCRASKPVDEGSDSYLNMWYQKPGKAPKLLIYAASYLES 60
        |||
        61 GVPSSRFGSGSGGTDFTLTITSSLOPEDFATYYCOQSHEDPYTFGQGTKEIKRTV 114
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RESULT 3
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; Sequence 8, Application US/09920171
; Patent No. 6682735
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAb11
US-09-920-171-8
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Query Match          100.0%; Score 596; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.2e-49;
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DB      1 DIQLTQSPSSLSASVGDRTVITTCRASKPVDEGSDSYLNMWYQKPGKAPKLLIYAASYLES 60
        |||
        61 GVPSSRFGSGSGGTDFTLTITSSLOPEDFATYYCOQSHEDPYTFGQGTKEIKRTV 114
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RESULT 4
US-09-716-028-8
; Sequence 8, Application US/09716028
; Patent No. 6723833
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/09/716,028
; PRIOR FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 09/109,207
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; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Light chain sequence derived from MAb11
US-09-716-028-8
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Query Match          100.0%; Score 596; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.2e-49;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB      1 DIQLTQSPSSLSASVGDRTVITTCRASKPVDEGSDSYLNMWYQKPGKAPKLLIYAASYLES 60
        |||
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RESULT 5
US-10-113-996-8
; Sequence 8, Application US/10113996
; Patent No. 6761889
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAb11
US-10-113-996-8
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Query Match          100.0%; Score 596; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.2e-49;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB      1 DIQLTQSPSSLSASVGDRTVITTCRASKPVDEGSDSYLNMWYQKPGKAPKLLIYAASYLES 60
        |||
        61 GVPSSRFGSGSGGTDFTLTITSSLOPEDFATYYCOQSHEDPYTFGQGTKEIKRTV 114
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RESULT 6
US-08-887-352B-15
; Sequence 15, Application US/08887352B
; Patent No. 5994511
; GENERAL INFORMATION:
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GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 7, 2006, 21:20:13 ; Search time 105.333 Seconds
(Without alignments)
501.327 Million cell updates/sec

Title: US-10-791-619-8

Perfect score: 596
Sequence: 1 DIQLQSPSSLSASVGDRTV.....SHEDPTFGGKVEIKRTV 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA Main:
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4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10_PUBCOMB.pep.*
6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB | ID | Description |
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| 3 | 596 | 100.0 | 114 | 5 | US-10-791-619-8 | Sequence 8, Appl1 |
| 4 | 596 | 100.0 | 218 | 3 | US-09-920-171-15 | Sequence 15, Appl1 |
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| 7 | 596 | 100.0 | 218 | 4 | US-09-920-171-24 | Sequence 24, Appl1 |
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| 9 | 596 | 100.0 | 218 | 4 | US-10-113-996-17 | Sequence 17, Appl1 |
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| 11 | 596 | 100.0 | 218 | 4 | US-10-113-996-24 | Sequence 24, Appl1 |
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| 13 | 596 | 100.0 | 218 | 5 | US-10-791-619-15 | Sequence 15, Appl1 |
| 14 | 596 | 100.0 | 218 | 5 | US-10-791-619-17 | Sequence 17, Appl1 |
| 15 | 596 | 100.0 | 218 | 5 | US-10-791-619-19 | Sequence 19, Appl1 |
| 16 | 596 | 100.0 | 218 | 5 | US-10-791-619-24 | Sequence 24, Appl1 |
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| 18 | 596 | 100.0 | 218 | 5 | US-10-698-073-12 | Sequence 12, Appl1 |
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| 20 | 596 | 100.0 | 218 | 5 | US-10-923-327-12 | Sequence 12, Appl1 |
| 21 | 596 | 100.0 | 218 | 5 | US-10-923-327-17 | Sequence 17, Appl1 |
| 22 | 596 | 100.0 | 218 | 6 | US-11-013-966-2 | Sequence 2, Appl1 |
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| 25 | 594 | 99.7 | 114 | 5 | US-10-698-073-1 | Sequence 1, Appl1 |
| 26 | 594 | 99.7 | 114 | 5 | US-10-923-327-1 | Sequence 1, Appl1 |
| 27 | 594 | 99.7 | 218 | 3 | US-09-792-938-1 | Sequence 1, Appl1 |

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| 28 | 594 | 99.7 | 218 | 4 | US-10-292-869-1 | Sequence 1, Appl1 |
| 29 | 594 | 99.7 | 218 | 4 | US-10-835-642-1 | Sequence 1, Appl1 |
| 30 | 594 | 99.7 | 218 | 5 | US-10-757-863-1 | Sequence 1, Appl1 |
| 31 | 594 | 99.7 | 218 | 5 | US-10-698-073-8 | Sequence 8, Appl1 |
| 32 | 594 | 99.7 | 218 | 5 | US-10-698-073-10 | Sequence 10, Appl1 |
| 33 | 594 | 99.7 | 218 | 5 | US-10-982-470-1 | Sequence 1, Appl1 |
| 34 | 594 | 99.7 | 218 | 5 | US-10-923-327-8 | Sequence 8, Appl1 |
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| 36 | 594 | 99.7 | 218 | 6 | US-11-158-839-1 | Sequence 1, Appl1 |
| 37 | 587 | 98.5 | 248 | 3 | US-09-920-171-22 | Sequence 22, Appl1 |
| 38 | 587 | 98.5 | 248 | 3 | US-09-920-171-22 | Sequence 22, Appl1 |
| 39 | 587 | 98.5 | 248 | 4 | US-10-113-996-22 | Sequence 22, Appl1 |
| 40 | 587 | 98.5 | 248 | 4 | US-10-113-996-23 | Sequence 23, Appl1 |
| 41 | 587 | 98.5 | 248 | 5 | US-10-791-619-22 | Sequence 22, Appl1 |
| 42 | 587 | 98.5 | 248 | 5 | US-10-791-619-23 | Sequence 23, Appl1 |
| 43 | 587 | 98.5 | 248 | 5 | US-10-698-073-15 | Sequence 15, Appl1 |
| 44 | 587 | 98.5 | 248 | 5 | US-10-698-073-16 | Sequence 16, Appl1 |
| 45 | 587 | 98.5 | 248 | 5 | US-10-923-327-15 | Sequence 15, Appl1 |

ALIGNMENTS

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RESULT 1
US-09-920-171-8
; Sequence 8, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IGE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 8
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Light chain sequence derived from MAE11
US-09-920-171-8

Query Match      100.0%; Score 596, DB 3; Length 114;
Best local Similarity 100.0%; Pred. No. 3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DIQLQSPSSLSASVGDRTVTCRASKPYDGGSDYLMWYQKPGKAPLTLTYASTYS 60
DB      1 DIQLQSPSSLSASVGDRTVTCRASKPYDGGSDYLMWYQKPGKAPLTLTYASTYS 60
QY      61 GVPSPRRSGSGSTDFLTITISLQPEDFATYYCOQSHEDPTFGGKVEIKRTV 114
DB      61 GVPSPRRSGSGSTDFLTITISLQPEDFATYYCOQSHEDPTFGGKVEIKRTV 114

RESULT 2
US-10-113-996-8
; Sequence 8, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IGE Antibodies
; FILE REFERENCE: P1123C3US

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;; CURRENT APPLICATION NUMBER: US/10/113,996
;; CURRENT FILING DATE: 2002-04-01
;; PRIOR APPLICATION NUMBER: US 08/887,352
;; PRIOR FILING DATE: 1997-07-02
;; PRIOR APPLICATION NUMBER: US 09/296,005
;; PRIOR FILING DATE: 1999-04-21
;; PRIOR APPLICATION NUMBER: US 09/920,171
;; PRIOR FILING DATE: 2001-08-01
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 8
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-113-996-8

Query Match 100.0%; Score 596; DB 4; Length 114;
Best Local Similarity 100.0%; Pred. No. 3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114
DB 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114

RESULT 3
US-10-791-619-8
;; Sequence 8, Application US/10791619
;; Publication No. US20040259077A1
;; GENERAL INFORMATION:
;; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
;; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
;; FILE REFERENCE: P1123R1
;; CURRENT APPLICATION NUMBER: US/10/791,619
;; CURRENT FILING DATE: 2004-03-02
;; PRIOR APPLICATION NUMBER: US/09/109,207
;; PRIOR FILING DATE: 1998-06-30
;; PRIOR APPLICATION NUMBER: US 60/051,554
;; PRIOR FILING DATE: 1997-07-03
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 8
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial
;; FEATURE:
;; NAME/KEY: Artificial
;; LOCATION: 1-114
;; OTHER INFORMATION: Light chain sequence derived from MAE11
US-10-791-619-8

Query Match 100.0%; Score 596; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 3e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114
DB 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114

RESULT 4
US-09-920-171-15
;; Sequence 15, Application US/09920171
;; Patent No. US20020054878A1
;; GENERAL INFORMATION:

;; APPLICANT: Lowman, Henry B.
;; APPLICANT: Presta, Leonard G.
;; APPLICANT: Jardieu, Paula M.
;; APPLICANT: Lowe, John
;; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
;; FILE REFERENCE: P1123C2US
;; CURRENT APPLICATION NUMBER: US/09/920,171
;; CURRENT FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: US 08/887,352
;; PRIOR FILING DATE: 1997-07-02
;; PRIOR APPLICATION NUMBER: US 09/296,005
;; PRIOR FILING DATE: 1999-04-21
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 15
;; LENGTH: 218
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Light chain sequence derived from MAE11
US-09-920-171-15

Query Match 100.0%; Score 596; DB 3; Length 218;
Best Local Similarity 100.0%; Pred. No. 5.7e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
QY 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114
DB 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114

RESULT 5
US-09-920-171-17
;; Sequence 17, Application US/09920171
;; Patent No. US20020054878A1
;; GENERAL INFORMATION:
;; APPLICANT: Lowman, Henry B.
;; APPLICANT: Presta, Leonard G.
;; APPLICANT: Jardieu, Paula M.
;; APPLICANT: Lowe, John
;; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
;; FILE REFERENCE: P1123C2US
;; CURRENT APPLICATION NUMBER: US/09/920,171
;; CURRENT FILING DATE: 2001-08-01
;; PRIOR APPLICATION NUMBER: US 08/887,352
;; PRIOR FILING DATE: 1997-07-02
;; PRIOR APPLICATION NUMBER: US 09/296,005
;; PRIOR FILING DATE: 1999-04-21
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 17
;; LENGTH: 218
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Light chain sequence derived from MAE11
US-09-920-171-17

Query Match 100.0%; Score 596; DB 3; Length 218;
Best Local Similarity 100.0%; Pred. No. 5.7e-42;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60
DB 1 DIQLTQSPSSLSASVGDRTVITTCRASKPYDGEBSYLMWYQKPGKAPKLLIYAASYLE 60

QY 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114
DB 61 GVPSSRSGSGSGTDFLTITSSLOPEDFATYYCQSHEDPYTFGQGTKEIKRTV 114

GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 7, 2006, 21:20:48 ; Search time 10.333 Seconds
(without alignments)
296.018 Million cell updates/sec

Title: US-10-791-619-8

Perfect score: 596
Sequence: 1 DIQLTQSPSSLSASVGDRTV.....SHEDPYTFGQTKVEIKRTV 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112942 seqs, 26832045 residues

Total number of hits satisfying chosen parameters: 112942

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA New:*

- 1: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 2: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 3: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 4: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 5: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/BCT_NEW_PUB.pep.*
- 6: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 7: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 8: /EMC_Celerra_SIDS3/Ptodata/1/pubpaa/US66_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|--------------------------------------|
| 1 | 596 | 100.0 | 218 | 7 | US-11-254-182-38 Sequence 38, Appl |
| 2 | 596 | 100.0 | 218 | 7 | US-11-254-182-39 Sequence 39, Appl |
| 3 | 570 | 95.6 | 218 | 7 | US-11-254-182-37 Sequence 37, Appl |
| 4 | 500 | 83.9 | 214 | 7 | US-11-337-300-129 Sequence 129, Appl |
| 5 | 487 | 81.7 | 109 | 7 | US-11-254-679-9 Sequence 9, Appl |
| 6 | 487 | 81.7 | 214 | 7 | US-11-219-121-27 Sequence 27, Appl |
| 7 | 486 | 81.5 | 247 | 7 | US-11-337-300-96 Sequence 96, Appl |
| 8 | 486 | 81.5 | 249 | 7 | US-11-337-300-67 Sequence 67, Appl |
| 9 | 486 | 81.5 | 249 | 7 | US-11-337-300-69 Sequence 69, Appl |
| 10 | 484 | 81.2 | 245 | 6 | US-10-539-402-41 Sequence 41, Appl |
| 11 | 480 | 80.5 | 106 | 7 | US-11-337-300-41 Sequence 41, Appl |
| 12 | 480 | 80.5 | 108 | 7 | US-11-023-959A-93 Sequence 93, Appl |
| 13 | 480 | 80.5 | 114 | 7 | US-11-023-959A-93 Sequence 93, Appl |
| 14 | 480 | 80.5 | 243 | 7 | US-11-337-300-47 Sequence 47, Appl |
| 15 | 480 | 80.5 | 245 | 7 | US-11-337-300-51 Sequence 51, Appl |
| 16 | 480 | 80.5 | 245 | 7 | US-11-337-300-53 Sequence 53, Appl |
| 17 | 480 | 80.5 | 245 | 7 | US-11-337-300-59 Sequence 59, Appl |
| 18 | 480 | 80.5 | 247 | 7 | US-11-337-300-63 Sequence 63, Appl |
| 19 | 480 | 80.5 | 247 | 7 | US-11-337-300-57 Sequence 57, Appl |
| 20 | 480 | 80.5 | 248 | 7 | US-11-337-300-61 Sequence 61, Appl |
| 21 | 480 | 80.5 | 249 | 7 | US-11-337-300-49 Sequence 49, Appl |
| 22 | 480 | 80.5 | 249 | 7 | US-11-337-300-90 Sequence 90, Appl |
| 23 | 480 | 80.5 | 249 | 7 | US-11-337-300-92 Sequence 92, Appl |
| 24 | 478 | 80.2 | 108 | 7 | US-11-254-182-27 Sequence 27, Appl |
| 25 | 478 | 80.2 | 108 | 7 | US-11-219-121-23 Sequence 23, Appl |

| | | | | | |
|----|-------|------|-----|---|---------------------------------------|
| 26 | 478 | 80.2 | 108 | 7 | US-11-106-762-19 Sequence 19, Appl |
| 27 | 478 | 80.2 | 108 | 7 | US-11-238-281-3 Sequence 3, Appl |
| 28 | 478 | 80.2 | 108 | 7 | US-11-196-917A-11 Sequence 11, Appl |
| 29 | 476.5 | 79.9 | 106 | 6 | US-10-983-104-6 Sequence 6, Appl |
| 30 | 476 | 79.9 | 214 | 7 | US-11-219-121-29 Sequence 29, Appl |
| 31 | 475 | 79.7 | 234 | 7 | US-11-211-917-24 Sequence 24, Appl |
| 32 | 473 | 79.4 | 107 | 7 | US-11-254-182-5 Sequence 5, Appl |
| 33 | 473 | 79.4 | 107 | 7 | US-11-295-229-5 Sequence 5, Appl |
| 34 | 472 | 79.2 | 291 | 7 | US-11-154-103-10 Sequence 10, Appl |
| 35 | 470 | 78.9 | 109 | 7 | US-11-094-132-75 Sequence 75, Appl |
| 36 | 469.5 | 78.8 | 105 | 6 | US-10-981-300-24 Sequence 24, Appl |
| 37 | 469.5 | 78.8 | 107 | 7 | US-11-023-959A-132 Sequence 132, Appl |
| 38 | 468 | 78.5 | 109 | 7 | US-11-254-679-70 Sequence 70, Appl |
| 39 | 468 | 78.5 | 214 | 6 | US-10-981-300-18 Sequence 18, Appl |
| 40 | 468 | 78.5 | 233 | 7 | US-11-295-006-17 Sequence 17, Appl |
| 41 | 467.5 | 78.4 | 107 | 7 | US-11-023-959A-123 Sequence 123, Appl |
| 42 | 467.5 | 78.4 | 213 | 7 | US-11-254-182-64 Sequence 64, Appl |
| 43 | 467.5 | 78.4 | 213 | 7 | US-11-106-762-33 Sequence 33, Appl |
| 44 | 467.5 | 78.4 | 213 | 7 | US-11-106-762-35 Sequence 35, Appl |
| 45 | 467.5 | 78.4 | 213 | 7 | US-11-106-762-38 Sequence 38, Appl |

ALIGNMENTS

```
RESULT 1
US-11-254-182-38
; Sequence 38, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1
; CURRENT APPLICATION NUMBER: US/11/254,182
; CURRENT FILING DATE: 2005-10-19
; PRIOR APPLICATION NUMBER: US 60/620,413
; PRIOR FILING DATE: 2004-10-20
; NUMBER OF SEQ ID NOS: 74
; SEQ ID NO 38
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized.
US-11-254-182-38

Query Match      100.0%; Score 596; DB 7; Length 218;
Best Local Similarity 100.0%; Pred. No. 1.5e-47;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 DIQLTQSPSSLSASVGDRTVTCRASKPYDGBGDSYLMWYQKPKAPKLTLYAASYLES 60
Db      1 DIQLTQSPSSLSASVGDRTVTCRASKPYDGBGDSYLMWYQKPKAPKLTLYAASYLES 60
QY      61 GVPSPFSGSGSTDTFTLTISLQPEDFATYYCQSHEDPYTFGQTKVEIKRTV 114
Db      61 GVPSPFSGSGSTDTFTLTISLQPEDFATYYCQSHEDPYTFGQTKVEIKRTV 114

RESULT 2
US-11-254-182-39
; Sequence 39, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GWEE, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1
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: CURRENT APPLICATION NUMBER: US-11/254,182
:
: CURRENT FILING DATE: 2005-10-19
:
: PRIOR APPLICATION NUMBER: US 60/620,413
:
: PRIOR FILING DATE: 2004-10-20
:
: NUMBER OF SEQ ID NOS: 74
:
: SEQ ID NO 39
:
: LENGTH: 218
:
: TYPE: PRT
:
: ORGANISM: Artificial sequence
:
: FEATURE:
:
: OTHER INFORMATION: Sequence is synthesized
:
: US-11-254-182-39

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|---------------------------|--------|--------------------|-------|-------------|
| Query Match | 100.0% | Score 536; | DB 7; | Length 218; |
| Best Local Similarity | 100.0% | Pred. No. 1.5e-47; | | |
| Matches 114; Conservative | 0; | Mismatches | 0; | Gaps 0; |

QY 1 DIQLTGSPSSLSASVGRVMTTCRASAPVVGEGSYLNWYQQRGKAPKLLIYAASTYS 60

Db 1 DIQLTGSPSSLSASVGRVMTTCRASAPVVGEGSYLNWYQQRGKAPKLLIYAASTYS 60

QY 61 GVPSRFSGSGGCTDFTLTISLQPEDPATTYCOOSHEDPYTPEGQKVEIKRTV 114

Db 61 GVPSRFSGSGGCTDFTLTISLQPEDPATTYCOOSHEDPYTPEGQKVEIKRTV 114

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1  RESULT 3
2  US-11-254-182-37
3  Sequence 37, Application US/11254182
4  Publication No. US20060088523A1
5  GENERAL INFORMATION:
6  APPLICANT: ANDYAT, JAMES
7  APPLICANT: GWEE, SHIANG C.
8  APPLICANT: LIU, JUN
9  APPLICANT: SHEN, YE
10 TITLE OF INVENTION: ANTIBODY FORMULATIONS
11 FILE REFERENCE: P2104R1
12 CURRENT APPLICATION NUMBER: US/11/254,182
13 PRIOR FILING DATE: 2005-10-19
14 PRIOR APPLICATION NUMBER: US 60/620,413
15 PRIOR FILING DATE: 2004-10-20
16 NUMBER OF SEQ ID NOS: 74
17 SEQ ID NO 37
18 LENGTH: 218
19 TYPE: PRT
20 ORGANISM: Artificial sequence
21 FEATURE:
22 OTHER INFORMATION: Sequence is synthesized
23 US-11-254-182-37

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| | | | | |
|---------------------------|-------|-------------------|----------|------------|
| Query Match | 95.6% | Score 570 | DB 7 | Length 218 |
| Best Local Similarity | 95.6% | Pred. No. 3.5e-45 | | |
| Matches 109; Conservative | 3 | Mismatches 2 | Indels 0 | Gaps 0 |

QY 1 DIQLTQSPSSLSASVGDVRVITTCASLPYVGEQSSLYNNVQQRKGRAPKULLIYAASTLS 60

Db 1 DIQLTQSPSSLSASVGDVRVITTCASQSVYDGDSTNNVQQRKGRAPKULLIYAASTLS 60

QY 61 GVSPRFSGSGSGDFTLTLSLPQPEDPATYYCQOSHDPPTFGQGTVEIKRV 114

Db 61 GVSPRFSGSGSGDFTLTLSLPQPEDPATYYCQOSHDPPTFGQGTVEIKRV 114

RESULT 4
US-11-337-300-129
Sequence 129, Application US/113373000
Publication No. US2006012580A1
GENERAL INFORMATION:
APPLICANT: Crucell Holland B.V.
APPLICANT: ter Meulen, Jan H.
APPLICANT: De Kruif, Cornelis A.
APPLICANT: van den Brink, Edward N.
APPLICANT: Goudsmit, Jaap

```

? TITLE OF INVENTION: Binding molecules against SARS-coronavirus and uses thereof
? FILE REFERENCE: 0091 WO 00 ORD
? CURRENT APPLICATION NUMBER: US/11/337,300
? CURRENT FILING DATE: 2006-01-20
? NUMBER OF SEQ ID NOS: 478
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 129
? LENGTH: 214
? TYPE: PRT
? ORGANISM: Artificial sequence
? FEATURES:
? OTHER INFORMATION: Igg light chain of 03-001, 03-002, 03-009, 03-013, 03-014 and 03-
? OTHER INFORMATION: 018
? US-11-337-300-129

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| | | | | |
|-----------------------|----------------|-------------------|----------|------------|
| Query Match | 83.9% | Score 500 | DB 7 | Length 214 |
| Best Local Similarity | 86.8% | Pred. No. 8.1e-39 | | |
| Matches 99 | Conservative 5 | Mismatches 6 | Indels 4 | Gaps 1 |

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Qy 1 DILDTOSPSSLSASVGDRAVITITCRASKPVDGSDSTLNNYQOKPEKAPLTLVYASSTES 60
Dy 1 DIQMTOSPSSLSASVGDRAVITITCRASQSI-----SYLNNYQOKPGKAPLTLVYASSTIOS 56
Qy 61 GVSRRREGSGSGDPTLTITSLQPEFAFYNYCOOSHEPDYTGSGQTKYEIKXTV 114
Dy 57 GVSRRREGSGSGDPTLTITSLQPEDFAYNYCOOSISTPTPTGSGQTKYEIKXTV 110

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RESULT 5
US-11-254-679-9
; Sequence 9, Application US/11254679
; Publication No. US20060099207A1
; GENERAL INFORMATION:
; APPLICANT: Wu, Herren
; APPLICANT: Allan, Christian
; APPLICANT: Gao, Changshou
; APPLICANT: An, Lang-Ling
; APPLICANT: Kienner, Peter
; APPLICANT: Mao, Su-Yau
; APPLICANT: Coyte, Anthony
; TITLE OF INVENTION: High Affinity Antibodies Against HMGBl and Method of Use Thereof
; FILE REFERENCE: HB601US
; CURRENT APPLICATION NUMBER: US/11/254,679
; PRIOR FILING DATE: 2005-10-21
; PRIOR APPLICATION NUMBER: 60/620,726
; PRIOR FILING DATE: 2004-10-22
; PRIOR APPLICATION NUMBER: 60/651,512
; PRIOR FILING DATE: 2005-02-10
; PRIOR APPLICATION NUMBER: 60/658,572
; PRIOR FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: 60/662,944
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: 60/713,712
; PRIOR FILING DATE: 2005-09-09
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 9
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-254-679-9

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| | | | | |
|-----------------------|-------|--------------|-------|--------------|
| Query Match | 81.7% | Score 487 | DB 7 | Length 109 |
| Best Local Similarity | 86.5% | Pred. No. 6 | 1e-38 | |
| Matches | 96 | Conservative | 5 | Mismatches 6 |
| | | | | Indels 4 |
| | | | | Gaps 1 |

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    | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 3 D I Q M T O P S S L S A S V G R A V I T T C R A Q S I - - - S Y L M N Y O O K P G A P A T L L I Y A A S S L G S 58
Oy 61 G V P S R F E G S S G T D F T L I T T S L O P D P A T Y Y C O O S H E D P Y T G Q G K V E I K 111
Db 59 G V P S R F E G S S G T D F T L I T T S L O P D P A T Y Y C O O S T R T R T G Q G K V E I K 109

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Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: July 7, 2006, 20:59:42 ; Search time 22.6667 Seconds
(without alignments)
440.228 Million cell updates/sec

Title: US-10-791-619-11
Perfect score: 623
Sequence: 1 EVQVLESGLVQPGSLRL.....YCARSGHYGHMFAVMGCG 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 623 | 100.0 | 114 | 1 | US-08-887-352B-11 Sequence 11, Appl |
| 2 | 623 | 100.0 | 114 | 2 | US-09-109-207C-11 Sequence 11, Appl |
| 3 | 623 | 100.0 | 114 | 2 | US-09-296-005-11 Sequence 11, Appl |
| 4 | 623 | 100.0 | 114 | 2 | US-09-920-171-11 Sequence 11, Appl |
| 5 | 623 | 100.0 | 114 | 2 | US-09-716-028-11 Sequence 11, Appl |
| 6 | 623 | 100.0 | 114 | 2 | US-10-113-996-11 Sequence 11, Appl |
| 7 | 623 | 100.0 | 114 | 2 | US-08-887-352B-21 Sequence 21, Appl |
| 8 | 623 | 100.0 | 229 | 2 | US-09-109-207C-21 Sequence 21, Appl |
| 9 | 623 | 100.0 | 229 | 2 | US-09-296-005-21 Sequence 21, Appl |
| 10 | 623 | 100.0 | 229 | 2 | US-09-920-171-21 Sequence 21, Appl |
| 11 | 623 | 100.0 | 229 | 2 | US-09-716-028-21 Sequence 21, Appl |
| 12 | 623 | 100.0 | 229 | 2 | US-10-113-996-21 Sequence 21, Appl |
| 13 | 623 | 100.0 | 233 | 1 | US-08-887-352B-26 Sequence 26, Appl |
| 14 | 623 | 100.0 | 233 | 1 | US-09-109-207C-26 Sequence 26, Appl |
| 15 | 623 | 100.0 | 233 | 2 | US-09-296-005-26 Sequence 26, Appl |
| 16 | 623 | 100.0 | 233 | 2 | US-09-920-171-26 Sequence 26, Appl |
| 17 | 623 | 100.0 | 233 | 2 | US-09-716-028-26 Sequence 26, Appl |
| 18 | 623 | 100.0 | 233 | 2 | US-10-113-996-26 Sequence 26, Appl |
| 19 | 623 | 100.0 | 248 | 1 | US-08-887-352B-23 Sequence 23, Appl |
| 20 | 623 | 100.0 | 248 | 2 | US-09-109-207C-23 Sequence 23, Appl |
| 21 | 623 | 100.0 | 248 | 2 | US-09-296-005-23 Sequence 23, Appl |
| 22 | 623 | 100.0 | 248 | 2 | US-09-920-171-23 Sequence 23, Appl |
| 23 | 623 | 100.0 | 248 | 2 | US-09-716-028-23 Sequence 23, Appl |
| 24 | 623 | 100.0 | 248 | 2 | US-10-113-996-23 Sequence 23, Appl |
| 25 | 623 | 100.0 | 451 | 1 | US-08-887-352B-18 Sequence 18, Appl |
| 26 | 623 | 100.0 | 451 | 2 | US-09-109-207C-18 Sequence 18, Appl |

| | | | | | |
|----|-----|-------|-----|---|-------------------------------------|
| 27 | 623 | 100.0 | 451 | 2 | US-09-282-505-2 Sequence 2, Appl |
| 28 | 623 | 100.0 | 451 | 2 | US-09-054-253-2 Sequence 2, Appl |
| 29 | 623 | 100.0 | 451 | 2 | US-09-296-005-18 Sequence 18, Appl |
| 30 | 623 | 100.0 | 451 | 2 | US-09-282-846-2 Sequence 2, Appl |
| 31 | 623 | 100.0 | 451 | 2 | US-09-680-145-2 Sequence 2, Appl |
| 32 | 623 | 100.0 | 451 | 2 | US-09-920-171-18 Sequence 18, Appl |
| 33 | 623 | 100.0 | 451 | 2 | US-09-716-028-18 Sequence 18, Appl |
| 34 | 623 | 100.0 | 451 | 2 | US-09-483-588-2 Sequence 2, Appl |
| 35 | 623 | 100.0 | 451 | 2 | US-10-113-996-18 Sequence 18, Appl |
| 36 | 603 | 96.8 | 114 | 1 | US-08-887-352B-12 Sequence 12, Appl |
| 37 | 603 | 96.8 | 114 | 2 | US-09-109-207C-12 Sequence 12, Appl |
| 38 | 603 | 96.8 | 114 | 2 | US-09-296-005-12 Sequence 12, Appl |
| 39 | 603 | 96.8 | 114 | 2 | US-09-920-171-12 Sequence 12, Appl |
| 40 | 603 | 96.8 | 114 | 2 | US-09-716-028-12 Sequence 12, Appl |
| 41 | 603 | 96.8 | 114 | 2 | US-10-113-996-12 Sequence 12, Appl |
| 42 | 603 | 96.8 | 229 | 1 | US-08-887-352B-20 Sequence 20, Appl |
| 43 | 603 | 96.8 | 229 | 2 | US-09-109-207C-20 Sequence 20, Appl |
| 44 | 603 | 96.8 | 229 | 2 | US-09-296-005-20 Sequence 20, Appl |
| 45 | 603 | 96.8 | 229 | 2 | US-09-920-171-20 Sequence 20, Appl |

ALIGNMENTS

RESULT 1
US-08-887-352B-11
Sequence 11, Application US/08887352B
Patent No. 5994511
GENERAL INFORMATION:
APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESSES:
ADDRESS: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatIn (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/887,352B
FILING DATE: 03-Jul-1997
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Syvoboda, Craig G.
REGISTRATION NUMBER: 39,044
REFERENCE/DOCKET NUMBER: P1123
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/425-1489
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 114 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-887-352B-11
Query Match 100.0%; Score 623; DB 1; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.1e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 EVQVLESGLVQPGSLRLSCAVSGYSTTSGYNNWIRQAGKGLERVAISKYGETY 60
DB 1 EVQVLESGLVQPGSLRLSCAVSGYSTTSGYNNWIRQAGKGLERVAISKYGETY 60
QY 61 NSVNGRITISDSDSKNPFYLOMNSLRADTAIVVYCARSGHYGHMFAVMGCG 114

Db 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114

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RESULT 2
US-09-109-207C-11
; Sequence 11, Application US/09109207C
; Patent No. 6172213
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptide
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/09/109,207C
; CURRENT FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-109-207C-11
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Query Match 100.0%; Score 623; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.1e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
Db 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60

Qy 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114
Db 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114

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RESULT 3
US-09-296-005-11
; Sequence 11, Application US/09296005
; Patent No. 6230957
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123C1r
; CURRENT APPLICATION NUMBER: US/09/296,005
; CURRENT FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 08/887,352
; EARLIER FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 26
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-296-005-11
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Query Match 100.0%; Score 623; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.1e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60

Qy 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114
Db 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114

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RESULT 4
US-09-920-171-11
; Sequence 11, Application US/09920171
; Patent No. 6682735
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-11
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Query Match 100.0%; Score 623; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.1e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
Db 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60

Qy 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114
Db 61 NPSVKGRITISRDSKNTFYLNQNSLRABDTAVYYCARSGSHYFGHMFPAVMGQ 114

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RESULT 5
US-09-716-028-11
; Sequence 11, Application US/09716028
; Patent No. 6723833
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/09/716,028
; CURRENT FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 11
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-716-028-11
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Query Match 100.0%; Score 623; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 1.1e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
Db 1 EVOLVESGGGLVQPGGSLRLSCAVSIGSYTSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60

GenCore version 5.1.9
Copyright (c) 1993 - 2006 BioCeleration Ltd.

OM protein - protein search, using sw model

Run on: July 7, 2006, 21:20:13 ; Search time 105.333 Seconds

(Without alignments)
501.327 Million cell updates/sec

Title: US-10-791-619-11

Perfect score: 623
Sequence: 1 EVQVBSGGGLVQPGSURL.....YCARGSHYGHMHPAVWGOG 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:
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3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep.*
4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
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| 1 | 623 | 100.0 | 114 | 3 | US-09-920-171-11 Sequence 11, Appl |
| 2 | 623 | 100.0 | 114 | 4 | US-10-113-996-11 Sequence 11, Appl |
| 3 | 623 | 100.0 | 114 | 5 | US-10-791-619-11 Sequence 11, Appl |
| 4 | 623 | 100.0 | 114 | 5 | US-10-698-073-4 Sequence 4, Appl |
| 5 | 623 | 100.0 | 114 | 5 | US-10-923-327-4 Sequence 4, Appl |
| 6 | 623 | 100.0 | 121 | 6 | US-11-208-422-52 Sequence 52, Appl |
| 7 | 623 | 100.0 | 229 | 3 | US-09-920-171-21 Sequence 21, Appl |
| 8 | 623 | 100.0 | 229 | 4 | US-10-113-996-21 Sequence 21, Appl |
| 9 | 623 | 100.0 | 229 | 5 | US-10-791-619-21 Sequence 21, Appl |
| 10 | 623 | 100.0 | 229 | 5 | US-10-698-073-14 Sequence 14, Appl |
| 11 | 623 | 100.0 | 229 | 5 | US-10-923-327-14 Sequence 14, Appl |
| 12 | 623 | 100.0 | 233 | 3 | US-09-920-171-26 Sequence 26, Appl |
| 13 | 623 | 100.0 | 233 | 4 | US-10-113-996-26 Sequence 26, Appl |
| 14 | 623 | 100.0 | 233 | 5 | US-10-791-619-26 Sequence 26, Appl |
| 15 | 623 | 100.0 | 233 | 5 | US-10-698-073-19 Sequence 19, Appl |
| 16 | 623 | 100.0 | 233 | 5 | US-10-923-327-19 Sequence 19, Appl |
| 17 | 623 | 100.0 | 248 | 4 | US-09-920-171-23 Sequence 23, Appl |
| 18 | 623 | 100.0 | 248 | 4 | US-10-113-996-23 Sequence 23, Appl |
| 19 | 623 | 100.0 | 248 | 5 | US-10-791-619-23 Sequence 23, Appl |
| 20 | 623 | 100.0 | 248 | 5 | US-10-698-073-16 Sequence 16, Appl |
| 21 | 623 | 100.0 | 450 | 5 | US-10-698-073-11 Sequence 11, Appl |
| 22 | 623 | 100.0 | 451 | 3 | US-09-920-171-18 Sequence 18, Appl |
| 23 | 623 | 100.0 | 451 | 3 | US-09-792-938-2 Sequence 2, Appl |
| 24 | 623 | 100.0 | 451 | 4 | US-10-113-996-18 Sequence 18, Appl |
| 25 | 623 | 100.0 | 451 | 4 | US-10-292-869-2 Sequence 2, Appl |
| 26 | 623 | 100.0 | 451 | 4 | US-10-835-642-2 Sequence 2, Appl |
| 27 | 623 | 100.0 | 451 | 5 | US-10-757-863-2 Sequence 2, Appl |

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| 28 | 623 | 100.0 | 451 | 5 | US-10-791-619-18 Sequence 18, Appl |
| 29 | 623 | 100.0 | 451 | 5 | US-10-982-470-2 Sequence 2, Appl |
| 30 | 623 | 100.0 | 451 | 5 | US-10-923-327-11 Sequence 11, Appl |
| 31 | 623 | 100.0 | 451 | 6 | US-11-158-839-2 Sequence 2, Appl |
| 32 | 623 | 100.0 | 451 | 6 | US-11-208-422-22 Sequence 22, Appl |
| 33 | 623 | 100.0 | 451 | 6 | US-10-923-327-16 Sequence 16, Appl |
| 34 | 603 | 96.8 | 114 | 3 | US-09-920-171-12 Sequence 12, Appl |
| 35 | 603 | 96.8 | 114 | 4 | US-10-113-996-12 Sequence 12, Appl |
| 36 | 603 | 96.8 | 114 | 5 | US-10-791-619-12 Sequence 12, Appl |
| 37 | 603 | 96.8 | 114 | 5 | US-10-698-073-5 Sequence 5, Appl |
| 38 | 603 | 96.8 | 114 | 5 | US-10-923-327-5 Sequence 5, Appl |
| 39 | 603 | 96.8 | 121 | 6 | US-11-208-422-48 Sequence 48, Appl |
| 40 | 603 | 96.8 | 121 | 6 | US-11-208-422-50 Sequence 50, Appl |
| 41 | 603 | 96.8 | 229 | 3 | US-09-920-171-20 Sequence 20, Appl |
| 42 | 603 | 96.8 | 229 | 4 | US-10-113-996-20 Sequence 20, Appl |
| 43 | 603 | 96.8 | 229 | 5 | US-10-791-619-20 Sequence 20, Appl |
| 44 | 603 | 96.8 | 229 | 5 | US-10-698-073-13 Sequence 13, Appl |
| 45 | 603 | 96.8 | 229 | 5 | US-10-923-327-13 Sequence 13, Appl |

ALIGNMENTS

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RESULT 1
US-09-920-171-11
Sequence 11, Application US/09920171
Patent No. US20020054878A1
GENERAL INFORMATION:
APPLICANT: Lowman, Henry B.
APPLICANT: Jarden, Paula M.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
FILE REFERENCE: P1123C2US
CURRENT APPLICATION NUMBER: US/09/920,171
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: US 08/887,352
PRIOR FILING DATE: 1997-07-02
PRIOR APPLICATION NUMBER: US 09/296,005
PRIOR FILING DATE: 1999-04-21
NUMBER OF SEQ ID NOS: 44
SEQ ID NO 11
LENGTH: 114
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-11
Query Match 100.0%; Score 623, DB 3; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 61
1 EVQVBSGGGLVQPGSURLCAVSGYSTSGSNMWTROARKGLEWVAISKYGETKY 60
61 NPSVGRITISRDSKNTFYLMNSLRAEDTAVVYVCARGSHYFGHMFVWGOG 114
61 EVQVBSGGGLVQPGSURLCAVSGYSTSGSNMWTROARKGLEWVAISKYGETKY 60
61 NPSVGRITISRDSKNTFYLMNSLRAEDTAVVYVCARGSHYFGHMFVWGOG 114
Db 61
61 NPSVGRITISRDSKNTFYLMNSLRAEDTAVVYVCARGSHYFGHMFVWGOG 114
61 NPSVGRITISRDSKNTFYLMNSLRAEDTAVVYVCARGSHYFGHMFVWGOG 114
RESULT 2
US-10-113-996-11
Sequence 11, Application US/10113996
Patent No. US20030149244A1
GENERAL INFORMATION:
APPLICANT: Lowman, Henry B.
APPLICANT: Presta, Leonard G.
APPLICANT: Jarden, Paula M.
APPLICANT: Lowe, John
TITLE OF INVENTION: Improved Anti-IgE Antibodies
FILE REFERENCE: P1123C3US
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;; CURRENT APPLICATION NUMBER: US/10/113,996
;; CURRENT FILING DATE: 2002-04-01
;; PRIOR APPLICATION NUMBER: US 08/887,352
;; PRIOR FILING DATE: 1997-07-02
;; PRIOR APPLICATION NUMBER: US 09/296,005
;; PRIOR FILING DATE: 1999-04-21
;; PRIOR APPLICATION NUMBER: US 09/920,171
;; PRIOR FILING DATE: 2001-08-01
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 11
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-113-996-11

Query Match 100.0%; Score 623; DB 4; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60
QY 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114
DB 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114

RESULT 3
US-10-791-619-11

;; Sequence 11, Application US/10791619
;; Publication No. US20040259077A1
;; GENERAL INFORMATION:
;; APPLICANT: Henry B. Lomman, Leonard G. Presta, Paula M. Jardieu, John Lowe
;; TITLE OF INVENTION: Improved Anti-1GE Antibodies and Method of Improving Polypeptides
;; FILE REFERENCE: P1123R1
;; CURRENT APPLICATION NUMBER: US/10/791,619
;; CURRENT FILING DATE: 2004-03-02
;; PRIOR APPLICATION NUMBER: US/09/109,207
;; PRIOR FILING DATE: 1998-06-30
;; PRIOR APPLICATION NUMBER: US 60/051,554
;; PRIOR FILING DATE: 1997-07-03
;; NUMBER OF SEQ ID NOS: 44
;; SEQ ID NO 11
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial
;; FEATURE:
;; NAME/KEY: Artificial
;; LOCATION: 1-114
;; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-10-791-619-11

Query Match 100.0%; Score 623; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60
QY 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114
DB 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114

RESULT 4
US-10-698-073-4
;; Sequence 4, Application US/10698073
;; Publication No. US20050026881A1
;; GENERAL INFORMATION:

;; APPLICANT: ROBINSON, CYNTHIA B.
;; TITLE OF INVENTION: COMBINATION OF DEHYDROEPIANDROSTERONE OR
;; TITLE OF INVENTION: DEHYDROEPIANDROSTERONE-SULFATE WITH AN ANTI-1GE
;; TITLE OF INVENTION: ANTIBODY FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE
;; TITLE OF INVENTION: PULMONARY DISEASE
;; FILE REFERENCE: 30775-723,201
;; CURRENT APPLICATION NUMBER: US/10/698,073
;; CURRENT FILING DATE: 2003-10-26
;; PRIOR APPLICATION NUMBER: 60/492,231
;; PRIOR FILING DATE: 2003-07-31
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: PatentIn Ver. 3.2
;; SEQ ID NO 4
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
;; OTHER INFORMATION: Humanized Monoclonal Antibody
US-10-698-073-4

Query Match 100.0%; Score 623; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60
DB 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60
QY 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114
DB 61 NPSVKRITISRDDSNTFTYLOMNSLRADTAIVYICARSGSHYFGHMFPAVMGQ 114

RESULT 5
US-10-923-327-4

;; Sequence 4, Application US/10923327
;; Publication No. US20050261208A1
;; GENERAL INFORMATION:
;; APPLICANT: ROBINSON, CYNTHIA B.
;; TITLE OF INVENTION: COMBINATION OF DEHYDROEPIANDROSTERONE OR
;; TITLE OF INVENTION: DEHYDROEPIANDROSTERONE-SULFATE WITH AN ANTI-1GE
;; TITLE OF INVENTION: ANTIBODY FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE
;; TITLE OF INVENTION: PULMONARY DISEASE
;; FILE REFERENCE: 30775-723,501
;; CURRENT APPLICATION NUMBER: US/10/923,327
;; CURRENT FILING DATE: 2004-08-20
;; PRIOR APPLICATION NUMBER: PCT/US04/25054
;; PRIOR FILING DATE: 2004-07-30
;; PRIOR APPLICATION NUMBER: 10/698,073
;; PRIOR FILING DATE: 2003-10-29
;; PRIOR APPLICATION NUMBER: 60/492,231
;; PRIOR FILING DATE: 2003-07-31
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: PatentIn Ver. 3.3
;; SEQ ID NO 4
;; LENGTH: 114
;; TYPE: PRT
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
;; OTHER INFORMATION: construct
US-10-923-327-4

Query Match 100.0%; Score 623; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 2.5e-51;
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QY 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60
DB 1 EVOLVESGGGLVQPGGSLRLSCAIVSGYSITSGYSMMWIRQAPGKLEWVASIKYGETKY 60

GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceeleration Ltd.

OM protein - protein search, using sw model

Run on: July 7, 2006, 21:20:48 ; Search time 10.3333 Seconds

(without alignments)
296.018 Million cell updates/sec

Title: US-10-791-619-11

Perfect score: 623
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Scoring table: BLOSUM62

Gapop 10.0 , Gapect 0.5

Searched: 112942 seqs, 26832045 residues

Total number of hits satisfying chosen parameters: 112942

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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5: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/PCT_NEW_PUB pep.*
6: /EMC_Celerra_SIDS3/ptodata/1/pubpaa/US10_NEW_PUB pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 623 | 100.0 | 451 | 7 | US-11-254-182-43 Sequence 43, Appl |
| 2 | 603 | 96.8 | 451 | 7 | US-11-254-182-41 Sequence 41, Appl |
| 3 | 603 | 96.8 | 451 | 7 | US-11-254-182-42 Sequence 42, Appl |
| 4 | 457 | 73.4 | 121 | 7 | US-11-061-841-21 Sequence 21, Appl |
| 5 | 440 | 70.6 | 447 | 7 | US-11-219-121-32 Sequence 32, Appl |
| 6 | 427 | 68.5 | 451 | 7 | US-11-238-281-31 Sequence 31, Appl |
| 7 | 426 | 68.4 | 117 | 7 | US-11-219-121-26 Sequence 26, Appl |
| 8 | 426 | 68.4 | 447 | 7 | US-11-219-121-30 Sequence 30, Appl |
| 9 | 424.5 | 68.1 | 122 | 7 | US-11-254-182-29 Sequence 29, Appl |
| 10 | 424.5 | 68.1 | 122 | 7 | US-11-254-182-74 Sequence 74, Appl |
| 11 | 424.5 | 68.1 | 122 | 7 | US-11-106-762-2 Sequence 2, Appl |
| 12 | 424.5 | 68.1 | 122 | 7 | US-11-106-762-12 Sequence 12, Appl |
| 13 | 424.5 | 68.1 | 122 | 7 | US-11-238-281-8 Sequence 8, Appl |
| 14 | 424.5 | 68.1 | 122 | 7 | US-11-238-281-40 Sequence 40, Appl |
| 15 | 424.5 | 68.1 | 122 | 7 | US-11-256-060-4 Sequence 4, Appl |
| 16 | 424.5 | 68.1 | 122 | 7 | US-11-291-698A-48 Sequence 48, Appl |
| 17 | 424.5 | 68.1 | 451 | 7 | US-11-254-182-71 Sequence 71, Appl |
| 18 | 424.5 | 68.1 | 451 | 7 | US-11-254-182-72 Sequence 72, Appl |
| 19 | 424.5 | 68.1 | 451 | 7 | US-11-238-281-41 Sequence 41, Appl |
| 20 | 424.5 | 68.1 | 451 | 7 | US-11-238-281-42 Sequence 42, Appl |
| 21 | 424.5 | 68.1 | 451 | 7 | US-11-238-281-43 Sequence 43, Appl |
| 22 | 424.5 | 68.1 | 452 | 7 | US-11-254-182-65 Sequence 65, Appl |
| 23 | 424.5 | 68.1 | 452 | 7 | US-11-254-182-66 Sequence 66, Appl |
| 24 | 424.5 | 68.1 | 452 | 7 | US-11-106-762-4 Sequence 4, Appl |
| 25 | 424.5 | 68.1 | 452 | 7 | US-11-106-762-5 Sequence 5, Appl |

| | | | | | |
|----|-------|------|-----|---|--------------------------------------|
| 25 | 424.5 | 68.1 | 452 | 7 | US-11-106-762-26 Sequence 26, Appl |
| 27 | 424.5 | 68.1 | 452 | 7 | US-11-106-762-28 Sequence 28, Appl |
| 28 | 424.5 | 68.1 | 452 | 7 | US-11-106-762-39 Sequence 39, Appl |
| 29 | 424.5 | 68.1 | 452 | 7 | US-11-238-281-14 Sequence 14, Appl |
| 30 | 424.5 | 68.1 | 452 | 7 | US-11-238-281-15 Sequence 15, Appl |
| 31 | 424.5 | 68.1 | 471 | 7 | US-11-106-762-25 Sequence 25, Appl |
| 32 | 424.5 | 68.1 | 471 | 7 | US-11-106-762-27 Sequence 27, Appl |
| 33 | 424.5 | 68.1 | 471 | 7 | US-11-291-698A-57 Sequence 57, Appl |
| 34 | 424.5 | 68.1 | 471 | 7 | US-11-291-698A-58 Sequence 58, Appl |
| 35 | 423 | 67.9 | 123 | 7 | US-11-254-182-34 Sequence 34, Appl |
| 36 | 421.5 | 67.7 | 451 | 7 | US-11-238-281-33 Sequence 33, Appl |
| 37 | 421.5 | 67.7 | 451 | 7 | US-11-238-281-34 Sequence 34, Appl |
| 38 | 421.5 | 67.7 | 452 | 7 | US-11-106-762-34 Sequence 34, Appl |
| 39 | 421.5 | 67.7 | 452 | 7 | US-11-106-762-36 Sequence 36, Appl |
| 40 | 421.5 | 67.7 | 452 | 7 | US-11-238-281-29 Sequence 29, Appl |
| 41 | 417 | 66.9 | 114 | 7 | US-11-023-959A-153 Sequence 153, App |
| 42 | 416.5 | 66.9 | 124 | 7 | US-11-211-917-106 Sequence 106, App |
| 43 | 416 | 66.8 | 123 | 7 | US-11-211-917-117 Sequence 117, App |
| 44 | 415 | 66.6 | 123 | 7 | US-11-211-917-116 Sequence 116, App |
| 45 | 415 | 66.6 | 125 | 7 | US-11-211-917-107 Sequence 107, App |

ALIGNMENTS

RESULT 1
US-11-254-182-43
; Sequence 43, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GWEE, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1
; CURRENT APPLICATION NUMBER: US/11/254,182
; CURRENT FILING DATE: 2005-10-19
; PRIOR APPLICATION NUMBER: US 60/620,413
; PRIOR FILING DATE: 2004-10-20
; NUMBER OF SEQ ID NOS: 74
; SEQ ID NO 43
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized.
US-11-254-182-43

Query Match 100.0%; Score 623; DB 7; Length 451;
Best Local Similarity 100.0%; Pred. No. 4.7e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVQLVDSGGGLVQPGSLRLCAVSGYSTSGSNMWRROAGKGLFWASTKYSETKY 60
DB 1 EVQLVDSGGGLVQPGSLRLCAVSGYSTSGSNMWRROAGKGLFWASTKYSETKY 60
QY 61 NPSVKRITITSRDSSKNFTFLQNNSLRADTAVVYCARSGSHYFGHMFPAVWGCG 114
DB 61 NPSVKRITITSRDSSKNFTFLQNNSLRADTAVVYCARSGSHYFGHMFPAVWGCG 114
US-11-254-182-41
; Sequence 41, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GWEE, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1

```
;; CURRENT APPLICATION NUMBER: US/11/254,182
;; CURRENT FILING DATE: 2005-10-19
;; PRIOR APPLICATION NUMBER: US 60/620,413
;; PRIOR FILING DATE: 2004-10-20
;; NUMBER OF SEQ ID NOS: 74
;; SEQ ID NO 41
;; LENGTH: 451
;; TYPE: PRT
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Sequence is synthesized.
US-11-254-182-41
```

```
Query Match      96.8%; Score 603; DB 7; Length 451;
Best Local Similarity 96.5%; Pred. No. 3.2e-48;
Matches 110; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
DB      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASITDGSINY 60
```

```
QY      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
DB      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
```

```
RESULT 3
US-11-254-182-42
; Sequence 42, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GMEI, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1
; CURRENT APPLICATION NUMBER: US/11/254,182
; CURRENT FILING DATE: 2005-10-19
; PRIOR APPLICATION NUMBER: US 60/620,413
; PRIOR FILING DATE: 2004-10-20
; NUMBER OF SEQ ID NOS: 74
; SEQ ID NO 42
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized.
US-11-182-42
```

```
Query Match      96.8%; Score 603; DB 7; Length 451;
Best Local Similarity 96.5%; Pred. No. 3.2e-48;
Matches 110; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
DB      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASITDGSINY 60
```

```
QY      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
DB      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
```

```
RESULT 4
US-11-061-841-21
; Sequence 21, Application US/11061841
; Publication No. US20060122377A1
; GENERAL INFORMATION:
; APPLICANT: DENNIS, MARK S.
; TITLE OF INVENTION: CDR-REPAIRED ANTIBODIES
; FILE REFERENCE: P2070R1
; CURRENT APPLICATION NUMBER: US/11/061,841
; CURRENT FILING DATE: 2005-02-18
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;; PRIOR APPLICATION NUMBER: US 60/545,840
;; PRIOR FILING DATE: 2004-02-19
;; NUMBER OF SEQ ID NOS: 441
;; SEQ ID NO 21
;; LENGTH: 121
;; TYPE: PRT
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Sequence is synthesized.
US-11-061-841-21
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Query Match      73.4%; Score 457; DB 7; Length 121;
Best Local Similarity 69.3%; Pred. No. 2e-35;
Matches 79; Conservative 15; Mismatches 20; Indels 0; Gaps 0;
```

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QY      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
DB      1 DVQLDESGGLVPGSPQSLSLACSVTGYITSGYSNMWIRQFPGNKLEWVGSIYYDGSINY 60
```

```
QY      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
DB      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
```

```
RESULT 5
US-11-219-121-32
; Sequence 32, Application US/11219121
; Publication No. US20060093601A1
; GENERAL INFORMATION:
; APPLICANT: FONG, Sherman
; APPLICANT: DENNIS, Mark S.
; TITLE OF INVENTION: HUMANIZED ANTI-BETA7 ANTAGONISTS AND USES THEREFOR
; FILE REFERENCE: P2159R1
; CURRENT APPLICATION NUMBER: US/11/219,121
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 60/607,377
; PRIOR FILING DATE: 2004-09-03
; NUMBER OF SEQ ID NOS: 66
; SEQ ID NO 32
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: sequence is synthesized
US-11-219-121-32
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Query Match      70.6%; Score 440; DB 7; Length 447;
Best Local Similarity 76.5%; Pred. No. 2.7e-33;
Matches 88; Conservative 6; Mismatches 15; Indels 6; Gaps 4;
```

```
QY      1 EVOLVESGGGLVOPGGSRLSCAVSGYSITSGYSNMWIRQAPGKGLEWVASIKYSGETKY 60
DB      1 EVOLVESGGGLVOPGGSRLSCAVSGYFITTNNY-WGVVHQAPGKGLEWGYISTSGSTY 59
```

```
QY      61 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCARSGHYFGHMFPAVMGQG 114
DB      60 NPSVKGRITISRDDSNTFTYLOMNSLRADTAVYVCAMGSS--GYFDE--WGQG 110
```

```
RESULT 6
US-11-238-281-31
; Sequence 31, Application US/11238281
; Publication No. US20060110387A1
; GENERAL INFORMATION:
; APPLICANT: Brunetta, Paul G.
; TITLE OF INVENTION: METHOD FOR TREATING VASCULITIS
; FILE REFERENCE: P2177R1
; CURRENT APPLICATION NUMBER: US/11/238,281
; CURRENT FILING DATE: 2005-09-28
; PRIOR APPLICATION NUMBER: US 60/616,104
; PRIOR FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 31
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GenCore version 5.1.9
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: July 7, 2006, 20:59:42 ; Search time 22.6667 Seconds

(without alignments)
440.228 Million cell updates/sec

Title: US-10-791-619-12

Sequence: 1 EVQLVESGGGLVQPGGSLRL.....YCARSGSHYGHMHPAVWGOG 114

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|---------------|-------|----------------|--------|----|-------------------|
| 1 | 625 | 100.0 | 114 | 1 | US-08-887-352B-12 |
| 2 | 625 | 100.0 | 114 | 2 | US-09-109-207C-12 |
| 3 | 625 | 100.0 | 114 | 2 | US-09-296-005-12 |
| 4 | 625 | 100.0 | 114 | 2 | US-09-920-171-12 |
| 5 | 625 | 100.0 | 114 | 2 | US-09-916-028-12 |
| 6 | 625 | 100.0 | 114 | 2 | US-10-113-996-12 |
| 7 | 625 | 100.0 | 229 | 1 | US-08-887-352B-20 |
| 8 | 625 | 100.0 | 229 | 2 | US-09-109-207C-20 |
| 9 | 625 | 100.0 | 229 | 2 | US-09-296-005-20 |
| 10 | 625 | 100.0 | 229 | 2 | US-09-920-171-20 |
| 11 | 625 | 100.0 | 229 | 2 | US-09-916-028-20 |
| 12 | 625 | 100.0 | 229 | 2 | US-10-113-996-20 |
| 13 | 625 | 100.0 | 233 | 1 | US-08-887-352B-25 |
| 14 | 625 | 100.0 | 233 | 2 | US-09-109-207C-25 |
| 15 | 625 | 100.0 | 233 | 2 | US-09-296-005-25 |
| 16 | 625 | 100.0 | 233 | 2 | US-09-920-171-25 |
| 17 | 625 | 100.0 | 233 | 2 | US-09-916-028-25 |
| 18 | 625 | 100.0 | 233 | 2 | US-10-113-996-25 |
| 19 | 625 | 100.0 | 248 | 1 | US-08-887-352B-22 |
| 20 | 625 | 100.0 | 248 | 2 | US-09-109-207C-22 |
| 21 | 625 | 100.0 | 248 | 2 | US-09-296-005-22 |
| 22 | 625 | 100.0 | 248 | 2 | US-09-920-171-22 |
| 23 | 625 | 100.0 | 248 | 2 | US-09-916-028-22 |
| 24 | 625 | 100.0 | 248 | 2 | US-10-113-996-22 |
| 25 | 625 | 100.0 | 451 | 1 | US-08-887-352B-14 |
| 26 | 625 | 100.0 | 451 | 1 | US-08-887-352B-16 |

| | | | | | | |
|----|-----|-------|-----|---|-------------------|-------------------|
| 27 | 625 | 100.0 | 451 | 2 | US-08-466-151-65 | Sequence 65, Appl |
| 28 | 625 | 100.0 | 451 | 2 | US-09-109-207C-14 | Sequence 14, Appl |
| 29 | 625 | 100.0 | 451 | 2 | US-09-109-207C-16 | Sequence 16, Appl |
| 30 | 625 | 100.0 | 451 | 2 | US-09-296-005-14 | Sequence 14, Appl |
| 31 | 625 | 100.0 | 451 | 2 | US-09-296-005-16 | Sequence 16, Appl |
| 32 | 625 | 100.0 | 451 | 2 | US-09-920-171-14 | Sequence 14, Appl |
| 33 | 625 | 100.0 | 451 | 2 | US-09-920-171-16 | Sequence 16, Appl |
| 34 | 625 | 100.0 | 451 | 2 | US-09-916-028-14 | Sequence 14, Appl |
| 35 | 625 | 100.0 | 451 | 2 | US-09-916-028-16 | Sequence 16, Appl |
| 36 | 625 | 100.0 | 451 | 2 | US-10-113-996-14 | Sequence 14, Appl |
| 37 | 625 | 100.0 | 451 | 2 | US-10-113-996-16 | Sequence 16, Appl |
| 38 | 625 | 100.0 | 451 | 2 | US-09-925-179-65 | Sequence 65, Appl |
| 39 | 622 | 99.5 | 451 | 2 | US-08-887-352B-66 | Sequence 66, Appl |
| 40 | 605 | 96.8 | 121 | 1 | US-08-887-352B-3 | Sequence 3, Appl1 |
| 41 | 605 | 96.8 | 121 | 2 | US-09-109-207C-3 | Sequence 3, Appl1 |
| 42 | 605 | 96.8 | 121 | 2 | US-09-296-005-3 | Sequence 3, Appl1 |
| 43 | 605 | 96.8 | 121 | 2 | US-09-920-171-3 | Sequence 3, Appl1 |
| 44 | 605 | 96.8 | 121 | 2 | US-09-916-028-3 | Sequence 3, Appl1 |
| 45 | 605 | 96.8 | 121 | 2 | US-10-113-996-3 | Sequence 3, Appl1 |

ALIGNMENTS

RESULT 1
US-08-887-352B-12
Sequence 12, Application US/08887352B
Patent No. 5994511

GENERAL INFORMATION:

APPLICANT: Henry B. Lowman, Leonard G. Prestra, Paula M. Jardieu, John Lowe

TITLE OR INVENTION: Improved Anti-19E Antibodies and Method of

NUMBER OF SEQUENCES: 26

CORRESPONDENCE ADDRESS:

ADDRESS: Genentech, Inc.

STREET: 1 DNA Way

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatIn (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/887,352B

FILING DATE: 03-Jul-1997

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Svoboda, Craig G.

REGISTRATION NUMBER: 39, 044

REFERENCE/DOCKET NUMBER: P1123

TELECOMMUNICATION INFORMATION:

TELEPHONE: 650/225-1489

TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 114 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

US-08-887-352B-12

Query Match 100.0%; Score 625; DB 1; Length 114;
Best Local Similarity 100.0%; Pred. No. 5e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMTROAPGKLEWVAITTYGSTNY 60
DB 1 EVQLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMTROAPGKLEWVAITTYGSTNY 60
QY 61 NPSVGRITISRDDEKNTFYLQMNSLRDELDTAVVYCARSGSHYFGHMHPAVWGOG 114
|||||

Db 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114

RESULT 2
US-09-109-207C-12

; Sequence 12, Application US/09109207C
; Patent No. 6172213
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardiou, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptide
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/09/109,207C
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-109-207C-12

Query Match 100.0%; Score 625; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 5e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Db 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Qy 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
|||
Db 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
|||

RESULT 3
US-09-296-005-12

; Sequence 12, Application US/09296005
; Patent No. 6290957
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardiou, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123C1r
; CURRENT APPLICATION NUMBER: US/09/296,005
; CURRENT FILING DATE: 1999-04-21
; EARLIER APPLICATION NUMBER: US 08/887,352
; EARLIER FILING DATE: 1997-07-02
; NUMBER OF SEQ ID NOS: 26
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-296-005-12

Query Match 100.0%; Score 625; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 5e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Db 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Qy 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
|||
Db 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
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RESULT 4
US-09-920-171-12

; Sequence 12, Application US/09920171
; Patent No. 6682735
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardiou, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-920-171-12

Query Match 100.0%; Score 625; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 5e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
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Db 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Qy 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
|||
Db 61 NPSVKGRITISRDDSKNTFTYLOMNSLRABDTAVYYCARSGSHYFGHMFPAVMGOG 114
|||

RESULT 5
US-09-716-028-12

; Sequence 12, Application US/09716028
; Patent No. 6723833
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardiou, John Lowe
; TITLE OF INVENTION: Improved Anti-IgE Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/09/716,028
; CURRENT FILING DATE: 2000-11-17
; PRIOR APPLICATION NUMBER: US 09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
US-09-716-028-12

Query Match 100.0%; Score 625; DB 2; Length 114;
Best Local Similarity 100.0%; Pred. No. 5e-54;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||
Db 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITVDSTNY 60
|||

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OM protein - protein search, using SW model

Run on: July 7, 2006, 21:20:13 ; Search time 105.333 Seconds
(without alignments)
501.327 Million cell updates/sec

Title: US-10-791-619-12

Perfect score: 625
Sequence: 1 EVQLVESGGGLVQPGSLRL.....YCARGSHYFGHMFVAVMGOG 114

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA.Main:*

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3: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US09_PUBCOMB.pep:*
4: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
5: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
6: /EMC_Celerra_SIDS3/ptodata/2/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 625 | 100.0 | 114 | 3 | US-09-920-171-12 Sequence 12, Appl |
| 2 | 625 | 100.0 | 114 | 4 | US-10-113-996-12 Sequence 12, Appl |
| 3 | 625 | 100.0 | 114 | 5 | US-10-791-619-12 Sequence 12, Appl |
| 4 | 625 | 100.0 | 114 | 5 | US-10-698-073-5 Sequence 5, Appl |
| 5 | 625 | 100.0 | 114 | 5 | US-10-923-327-13 Sequence 5, Appl |
| 6 | 625 | 100.0 | 121 | 6 | US-11-208-422-48 Sequence 48, Appl |
| 7 | 625 | 100.0 | 121 | 6 | US-11-208-422-50 Sequence 50, Appl |
| 8 | 625 | 100.0 | 229 | 4 | US-09-920-171-20 Sequence 20, Appl |
| 9 | 625 | 100.0 | 229 | 4 | US-10-113-996-20 Sequence 20, Appl |
| 10 | 625 | 100.0 | 229 | 5 | US-10-791-619-20 Sequence 20, Appl |
| 11 | 625 | 100.0 | 229 | 5 | US-10-698-073-13 Sequence 13, Appl |
| 12 | 625 | 100.0 | 229 | 5 | US-10-923-327-13 Sequence 13, Appl |
| 13 | 625 | 100.0 | 233 | 4 | US-10-113-996-25 Sequence 25, Appl |
| 14 | 625 | 100.0 | 233 | 4 | US-10-113-996-25 Sequence 25, Appl |
| 15 | 625 | 100.0 | 233 | 5 | US-10-791-619-25 Sequence 25, Appl |
| 16 | 625 | 100.0 | 233 | 5 | US-10-698-073-18 Sequence 18, Appl |
| 17 | 625 | 100.0 | 233 | 5 | US-10-923-327-18 Sequence 18, Appl |
| 18 | 625 | 100.0 | 248 | 4 | US-09-920-171-22 Sequence 22, Appl |
| 19 | 625 | 100.0 | 248 | 4 | US-10-113-996-22 Sequence 22, Appl |
| 20 | 625 | 100.0 | 248 | 5 | US-10-791-619-22 Sequence 22, Appl |
| 21 | 625 | 100.0 | 248 | 5 | US-10-698-073-15 Sequence 15, Appl |
| 22 | 625 | 100.0 | 451 | 3 | US-09-920-171-14 Sequence 14, Appl |
| 23 | 625 | 100.0 | 451 | 3 | US-09-920-171-16 Sequence 16, Appl |
| 24 | 625 | 100.0 | 451 | 3 | US-09-925-179-65 Sequence 65, Appl |
| 25 | 625 | 100.0 | 451 | 4 | US-10-113-996-14 Sequence 14, Appl |
| 26 | 625 | 100.0 | 451 | 4 | US-10-113-996-16 Sequence 16, Appl |
| 27 | 625 | 100.0 | 451 | 4 | US-10-813-483-4 Sequence 4, Appl |

| | | | | | | |
|----|-----|-------|-----|---|------------------|-------------------|
| 28 | 625 | 100.0 | 451 | 4 | US-10-813-483-5 | Sequence 5, Appl |
| 29 | 625 | 100.0 | 451 | 5 | US-10-791-619-14 | Sequence 14, Appl |
| 30 | 625 | 100.0 | 451 | 5 | US-10-791-619-16 | Sequence 16, Appl |
| 31 | 625 | 100.0 | 451 | 5 | US-10-714-000-2 | Sequence 2, Appl |
| 32 | 625 | 100.0 | 451 | 5 | US-10-698-073-7 | Sequence 7, Appl |
| 33 | 625 | 100.0 | 451 | 5 | US-10-698-073-9 | Sequence 9, Appl |
| 34 | 625 | 100.0 | 451 | 5 | US-10-698-237-65 | Sequence 65, Appl |
| 35 | 625 | 100.0 | 451 | 5 | US-10-823-327-7 | Sequence 7, Appl |
| 36 | 625 | 100.0 | 451 | 5 | US-10-923-327-9 | Sequence 9, Appl |
| 37 | 625 | 100.0 | 451 | 6 | US-11-013-966-4 | Sequence 4, Appl |
| 38 | 625 | 100.0 | 451 | 6 | US-11-013-966-5 | Sequence 5, Appl |
| 39 | 625 | 100.0 | 451 | 6 | US-11-208-422-20 | Sequence 20, Appl |
| 40 | 625 | 100.0 | 451 | 6 | US-11-208-422-21 | Sequence 21, Appl |
| 41 | 625 | 100.0 | 669 | 5 | US-10-764-428-21 | Sequence 21, Appl |
| 42 | 622 | 99.5 | 451 | 3 | US-09-925-179-66 | Sequence 66, Appl |
| 43 | 622 | 99.5 | 451 | 3 | US-10-968-237-66 | Sequence 66, Appl |
| 44 | 610 | 97.6 | 248 | 5 | US-10-923-327-15 | Sequence 15, Appl |
| 45 | 605 | 96.8 | 121 | 3 | US-09-920-171-3 | Sequence 3, Appl |

ALIGNMENTS

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RESULT 1
US-09-920-171-12
; Sequence 12, Application US/09920171
; Patent No. US20020054878A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies (as amended)
; FILE REFERENCE: P1123C2US
; CURRENT APPLICATION NUMBER: US/09/920,171
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAE11
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Best Local Similarity 100.0%; Pred. No. 5.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 NPSVKGRIITSRDSSKNFTFYLOMNSLRADTVVYVCARGSHYFGHMFVAVMGOG 114
DB 61 NPSVKGRIITSRDSSKNFTFYLOMNSLRADTVVYVCARGSHYFGHMFVAVMGOG 114
RESULT 2
US-10-113-996-12
; Sequence 12, Application US/10113996
; Publication No. US20030149244A1
; GENERAL INFORMATION:
; APPLICANT: Lowman, Henry B.
; APPLICANT: Presta, Leonard G.
; APPLICANT: Jardieu, Paula M.
; APPLICANT: Lowe, John
; TITLE OF INVENTION: Improved Anti-IgE Antibodies
; FILE REFERENCE: P1123C3US
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; CURRENT APPLICATION NUMBER: US/10/113,996
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 08/887,352
; PRIOR FILING DATE: 1997-07-02
; PRIOR APPLICATION NUMBER: US 09/296,005
; PRIOR FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: US 09/920,171
; PRIOR FILING DATE: 2001-08-01
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRP
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Heavy chain sequence derived from MAb11
US-10-113-996-12

Query Match          100.0%; Score 625; DB 4; Length 114;
Best Local Similarity 100.0%; Pred. No. 5.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITTDGSTNY 60
QY 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114
DB 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114

RESULT 3
US-10-791-619-12
; Sequence 12, Application US/10791619
; Publication No. US20040259077A1
; GENERAL INFORMATION:
; APPLICANT: Henry B. Lowman, Leonard G. Presta, Paula M. Jardieu, John Lowe
; TITLE OF INVENTION: Improved Anti-1G8 Antibodies and Method of Improving Polypeptides
; FILE REFERENCE: P1123R1
; CURRENT APPLICATION NUMBER: US/10/791,619
; CURRENT FILING DATE: 2004-03-02
; PRIOR APPLICATION NUMBER: US/09/109,207
; PRIOR FILING DATE: 1998-06-30
; PRIOR APPLICATION NUMBER: US 60/051,554
; PRIOR FILING DATE: 1997-07-03
; NUMBER OF SEQ ID NOS: 44
; SEQ ID NO 12
; LENGTH: 114
; TYPE: PRP
; ORGANISM: Artificial
; FEATURE:
; NAME/KEY: Artificial
; LOCATION: 1-114
; OTHER INFORMATION: Heavy chain sequence derived from MAb11
US-10-791-619-12

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Best Local Similarity 100.0%; Pred. No. 5.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITTDGSTNY 60
QY 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114
DB 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114

RESULT 4
US-10-698-073-5
; Sequence 5, Application US/10698073
; Publication No. US20050026881A1
; GENERAL INFORMATION:
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; APPLICANT: ROBINSON, CYNTHIA B.
; TITLE OF INVENTION: COMBINATION OF DEHYDROEPIANDROSTERONE OR
; TITLE OF INVENTION: DEHYDROEPIANDROSTERONE-SULFATE WITH AN ANTI-1GE
; TITLE OF INVENTION: ANTIBODY FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE
; TITLE OF INVENTION: PULMONARY DISEASE
; FILE REFERENCE: 30775-723,201
; CURRENT APPLICATION NUMBER: US/10/698,073
; CURRENT FILING DATE: 2003-10-26
; PRIOR APPLICATION NUMBER: 60/492,231
; PRIOR FILING DATE: 2003-07-31
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 5
; LENGTH: 114
; TYPE: PRP
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: Humanized Monoclonal Antibody
US-10-698-073-5

Query Match          100.0%; Score 625; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 5.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITTDGSTNY 60
QY 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114
DB 61 NPSVKGRIITISRDSDKNTFYLQMSLRAEDTAVYYCARGSHYFGHMFPAVMGQG 114

RESULT 5
US-10-923-327-5
; Sequence 5, Application US/10923327
; Publication No. US20050261208A1
; GENERAL INFORMATION:
; APPLICANT: ROBINSON, CYNTHIA B.
; APPLICANT: BALL, HOWARD A.
; TITLE OF INVENTION: COMBINATION OF DEHYDROEPIANDROSTERONE OR
; TITLE OF INVENTION: DEHYDROEPIANDROSTERONE-SULFATE WITH AN ANTI-1GE
; TITLE OF INVENTION: ANTIBODY FOR TREATMENT OF ASTHMA OR CHRONIC OBSTRUCTIVE
; TITLE OF INVENTION: PULMONARY DISEASE
; FILE REFERENCE: 30775-723,501
; CURRENT APPLICATION NUMBER: US/10/923,327
; CURRENT FILING DATE: 2004-08-20
; PRIOR APPLICATION NUMBER: PCT/US04/25054
; PRIOR FILING DATE: 2004-07-30
; PRIOR APPLICATION NUMBER: 10/698,073
; PRIOR FILING DATE: 2003-10-29
; PRIOR APPLICATION NUMBER: 60/492,231
; PRIOR FILING DATE: 2003-07-31
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 5
; LENGTH: 114
; TYPE: PRP
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: construct
US-10-923-327-5

Query Match          100.0%; Score 625; DB 5; Length 114;
Best Local Similarity 100.0%; Pred. No. 5.9e-51;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVOLVESGGGLVQPGGSLRLSCAASGYSITSGYSNMWIRQAPGKGLEWVASITTDGSTNY 60
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GenCore version 5.1.9
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OM protein - protein search, using sw model

Run on: July 7, 2006, 21:20:48 ; Search time 10.3333 Seconds
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296.018 Million cell updates/sec

Title: US-10-791-619-12

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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 112942 seqs, 26832045 residues

Total number of hits satisfying chosen parameters: 112942

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
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| 1 | 625 | 100.0 | 451 | US-11-254-182-41 | Sequence 41, Appl |
| 2 | 625 | 100.0 | 451 | US-11-254-182-42 | Sequence 42, Appl |
| 3 | 603 | 96.5 | 451 | US-11-254-182-43 | Sequence 43, Appl |
| 4 | 479 | 76.6 | 121 | US-11-061-841-21 | Sequence 21, Appl |
| 5 | 442 | 70.7 | 447 | US-11-219-121-32 | Sequence 32, Appl |
| 6 | 430 | 68.8 | 451 | US-11-238-281-31 | Sequence 31, Appl |
| 7 | 428 | 68.5 | 117 | US-11-219-121-26 | Sequence 26, Appl |
| 8 | 428 | 68.5 | 447 | US-11-219-121-30 | Sequence 30, Appl |
| 9 | 427.5 | 68.4 | 122 | US-11-254-182-74 | Sequence 74, Appl |
| 10 | 427.5 | 68.4 | 122 | US-11-238-281-40 | Sequence 40, Appl |
| 11 | 427.5 | 68.4 | 451 | US-11-254-182-72 | Sequence 72, Appl |
| 12 | 427.5 | 68.4 | 451 | US-11-238-281-41 | Sequence 41, Appl |
| 13 | 427.5 | 68.4 | 451 | US-11-238-281-43 | Sequence 43, Appl |
| 14 | 427.5 | 68.4 | 452 | US-11-254-182-66 | Sequence 66, Appl |
| 15 | 427.5 | 68.4 | 452 | US-11-106-762-39 | Sequence 39, Appl |
| 16 | 424.5 | 67.9 | 123 | US-11-238-281-33 | Sequence 33, Appl |
| 17 | 424.5 | 67.9 | 451 | US-11-238-281-34 | Sequence 34, Appl |
| 18 | 424.5 | 67.9 | 452 | US-11-106-762-34 | Sequence 34, Appl |
| 19 | 424.5 | 67.9 | 452 | US-11-106-762-36 | Sequence 36, Appl |
| 20 | 424.5 | 67.9 | 452 | US-11-238-281-29 | Sequence 29, Appl |
| 21 | 423.5 | 67.8 | 122 | US-11-254-182-29 | Sequence 29, Appl |
| 22 | 423.5 | 67.8 | 122 | US-11-106-762-2 | Sequence 2, Appl |
| 23 | 423.5 | 67.8 | 122 | US-11-106-762-12 | Sequence 12, Appl |
| 24 | 423.5 | 67.8 | 122 | US-11-238-281-8 | Sequence 8, Appl |
| 25 | 423.5 | 67.8 | 122 | US-11-256-060-4 | Sequence 4, Appl |

| | | | | | | |
|----|-------|------|-----|---|-------------------|-------------------|
| 25 | 423.5 | 67.8 | 122 | 7 | US-11-291-698A-48 | Sequence 48, Appl |
| 27 | 423.5 | 67.8 | 451 | 7 | US-11-254-182-71 | Sequence 71, Appl |
| 28 | 423.5 | 67.8 | 451 | 7 | US-11-238-281-42 | Sequence 42, Appl |
| 29 | 423.5 | 67.8 | 452 | 7 | US-11-254-182-65 | Sequence 65, Appl |
| 30 | 423.5 | 67.8 | 452 | 7 | US-11-106-762-4 | Sequence 4, Appl |
| 31 | 423.5 | 67.8 | 452 | 7 | US-11-106-762-5 | Sequence 5, Appl |
| 32 | 423.5 | 67.8 | 452 | 7 | US-11-106-762-26 | Sequence 26, Appl |
| 33 | 423.5 | 67.8 | 452 | 7 | US-11-106-762-28 | Sequence 28, Appl |
| 34 | 423.5 | 67.8 | 452 | 7 | US-11-238-281-14 | Sequence 14, Appl |
| 35 | 423.5 | 67.8 | 452 | 7 | US-11-238-281-15 | Sequence 15, Appl |
| 36 | 423.5 | 67.8 | 471 | 7 | US-11-106-762-25 | Sequence 25, Appl |
| 37 | 423.5 | 67.8 | 471 | 7 | US-11-106-762-27 | Sequence 27, Appl |
| 38 | 423.5 | 67.8 | 471 | 7 | US-11-291-698A-57 | Sequence 57, Appl |
| 39 | 423.5 | 67.8 | 471 | 7 | US-11-291-698A-58 | Sequence 58, Appl |
| 40 | 422.5 | 67.6 | 124 | 7 | US-11-211-917-106 | Sequence 106, App |
| 41 | 422.5 | 67.6 | 123 | 7 | US-11-254-182-34 | Sequence 34, Appl |
| 42 | 422 | 67.5 | 123 | 7 | US-11-211-917-117 | Sequence 117, App |
| 43 | 421 | 67.4 | 123 | 7 | US-11-211-917-116 | Sequence 116, App |
| 44 | 421 | 67.4 | 125 | 7 | US-11-211-917-107 | Sequence 107, App |
| 45 | 420 | 67.2 | 123 | 6 | US-10-546-594-64 | Sequence 64, Appl |

ALIGNMENTS

RESULT 1
US-11-254-182-41
; Sequence 41, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GWEE, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1
; CURRENT APPLICATION NUMBER: US/11/254,182
; CURRENT FILING DATE: 2005-10-19
; PRIOR APPLICATION NUMBER: US 60/620,413
; PRIOR FILING DATE: 2004-10-20
; NUMBER OF SEQ ID NOS: 74
; SEQ ID NO 41
; LENGTH: 451
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence is synthesized.
US-11-254-182-41

Query Match 100.0%; Score 625; DB 7; Length 451;
Best Local Similarity 100.0%; Pred. No. 1.4e-50;
Matches 114; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 EVQVBSGGGLVQPGSLRLCAVSGYSTGYSNMWLRQARKGLFWASTYDGSNTY 60
QY 61 NPSVGRITISRDSDKNFTYLOMNSLRADTAVVYVCARSGHYFGHWFPAWVGOG 114
DB 61 NPSVGRITISRDSDKNFTYLOMNSLRADTAVVYVCARSGHYFGHWFPAWVGOG 114

RESULT 2
US-11-254-182-42
; Sequence 42, Application US/11254182
; Publication No. US20060088523A1
; GENERAL INFORMATION:
; APPLICANT: ANDYA, JAMES
; APPLICANT: GWEE, SHIANG C.
; APPLICANT: LIU, JUN
; APPLICANT: SHEN, YE
; TITLE OF INVENTION: ANTIBODY FORMULATIONS
; FILE REFERENCE: P2104R1

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: CURRENT APPLICATION NUMBER: US/11/254,182
:
: CURRENT FILING DATE: 2005-10-19
:
: PRIOR APPLICATION NUMBER: US 60/620,413
:
: PRIOR FILING DATE: 2004-10-20
:
: NUMBER OF SEQ ID NOS: 74
:
: SEQ ID NO 42
:
: LENGTH: 451
:
: TYPE: prt
:
: ORGANISM: Artificial sequence
:
: FEATURE:
:
: OTHER INFORMATION: Sequence is synthesized
:
: US-11-254-182-42

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| Query Match | 100.0% | Score 625; | DB 7; | Length 451; |
| Best Local Similarity | 100.0% | Pred. No. 1.4e-50; | | |
| Matches 114; Conservative | 0; | Mismatches 0; | Indels 0; | Gaps 0; |

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Db 1 EVOLVEGGGGLVDPGGSLRLSCAVSGSITNSGYSNMNRQAPKSGLEWASITYGOSTNY 60
QY 61 NPSSYKGIITTSRRDSSKNTFYLOWNSLAEEDTAVYYCARSGSHYFGHHFVPMGGQ 114
Db 61 NPSSYKGIITTSRRDSSKNTFYLOWNSLAEEDTAVYYCARSGSHYFGHHFVPMGGQ 114
QY 61 NPSSYKGIITTSRRDSSKNTFYLOWNSLAEEDTAVYYCARSGSHYFGHHFVPMGGQ 114

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1 RESULT 3
2 US-11-254-182-43
3 , Sequence 43, Application US/11254182
4 , Publication No. US2006008853A1
5 , GENERAL INFORMATION:
6 , APPLICANT: ANDYA, JAMES
7 , APPLICANT: GWEE, SHIANG C.
8 , APPLICANT: LIU, JUN
9 , APPLICANT: SHEN, YE
10 , TITLE OF INVENTION: ANTIBODY FORMULATIONS
11 , FILE REFERENCE: P2104R1
12 , CURRENT APPLICATION NUMBER: US/11/254,182
13 , CURRENT FILING DATE: 2005-10-19
14 , PRIOR APPLICATION NUMBER: US 60/620,413
15 , PRIOR FILING DATE: 2004-10-20
16 , NUMBER OF SEQ ID NOS: 74
17 , SEQ ID NO 43
18 , LENGTH: 451
19 , TYPE: PRT
20 , ORGANISM: Artificial sequence
21 , FEATURE:
22 , OTHER INFORMATION: Sequence is synthesized
23 US-11-254-182-43

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| Best Local Similarity | 96.5% | Pred. No. 1.5e-48 | | |
| Matches 110 | Conservative | 0 | Mismatches 4 | Indels 0 |
| | | | | Gaps 0 |

| Qy | Db | Qy | Db |
|--|---|---|---|
| 1 | 1 | 61 | 61 |
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| | | NPSYKGRITTTSRDSSKNTFYLMNLSLAEDTAYYYCARSGHYFGHHFAVMGGG | NPSYKGRITTTSRDSSKNTFYLMNLSLAEDTAYYYCARSGHYFGHHFAVMGGG |
| | | | |
| | | 61 | 61 |
| | | NPSYKGRITTTSRDSSKNTFYLMNLSLAEDTAYYYCARSGHYFGHHFAVMGGG | NPSYKGRITTTSRDSSKNTFYLMNLSLAEDTAYYYCARSGHYFGHHFAVMGGG |

RESULT 4
US-11-061-841-21
Sequence 21, Application US/11061841
Publication No. US20060122377A1
GENERAL INFORMATION:
APPLICANT: DENNIS, MARK S.
TITLE OF INVENTION: CDR-REPAIRED ANTIBODIES
FILE REFERENCE: P2070R1
CURRENT APPLICATION NUMBER: US/11/061,841
CURRENT FILING DATE: 2005-02-18

```

: PRIOR APPLICATION NUMBER: US 60/545,840
: PRIOR FILING DATE: 2004-02-19
: NUMBER OF SEQ ID NOS: 441
: SEQ ID NO 21
: LENGTH: 121
: TYPE: prt
: ORGANISM: Artificial sequence
: FEATURE:
: OTHER INFORMATION: Sequence is syntheas
US-11-061-841-21

```

| | | | | |
|-----------------------|-----------------|-----------------|----------|-----------|
| Query Match | 76.6% | Score 479 | DB 7 | Length 12 |
| Best Local Similarity | 72.8% | Pred. No. 1e-37 | | |
| Matches 83 | Conservative 15 | Mismatches 16 | Indels 0 | Gaps 0 |

QY EVOLVESGGGLVPGGSLRLRISCAVSGSYSTTSGSNMIRQAQKGLIEWAAS:ITTYGSTLY 60
Db DVQLQDESGPELVKPSQSLACSVTGYSTTSGSNMIRIQFGNKLKEMNGSLITTYGSSNY 60
QY 61 NPSSYKGRITTSRDDSKNTFLQNMISLRADTAVYTCARCSHYFGHHFPAVMGQ 114
Db 61 NPSSKKNISVTRITSONQFLKLNKSTAAEDTAVYTCARCSHYFGHHFPAVMAG 114

```

RESULT 5
US-11-219-121-32
; Sequence 32, Application US/11219121
; Publication NO. US20060093601A1
; GENERAL INFORMATION:
; APPLICANT: Fong, Sherman
; APPLICANT: Dennis Mark S.
; TITLE OF INVENTION: HUMANIZED ANTI-BETA7 ANTAGONISTS AND USES THEREFOR
; FILE REFERENCE: P2159R1
; CURRENT APPLICATION NUMBER: US/11/219,121
; CURRENT FILING DATE: 2005-09-02
; PRIOR APPLICATION NUMBER: US 60/607,377
; PRIOR FILING DATE: 2004-09-03
; NUMBER OF SEQ ID NOS: 68
; SEQ ID NO 32
; LENGTH: 447
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: sequence is synthesized
US-11-219-121-32

```

| | | | | |
|-----------------------|--------------|-----------------|---------------|------------|
| Query Match | 70.7% | Score 442 | DB 7 | Length 447 |
| Best Local Similarity | 76.5% | Pred. No. 1e-33 | | |
| Matches 88 | Conservative | 8 | Mismatches 13 | Indels 6 |
| | | | | Gaps 4 |

[illegible]

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RESULT 6
US-11-238-281-31
; Sequence 31, Application US/11238281
; Publication No. US20060110387A1
; GENERAL INFORMATION:
; APPLICANT: Brunetta, Paul G.
; TITLE OF INVENTION: METHOD FOR TREATING VASCULITIS
; FILE REFERENCES: P21A77R1
; CURRENT APPLICATION NUMBER: US/11/238,281
; PRIORITY FILING DATE: 2005-09-28
; PRIORITY APPLICATION NUMBER: US 60/616,104
; PRIORITY FILING DATE: 2004-10-05
; NUMBER OF SEQ ID NOS: 43
; SEQ ID NO 31

```